

Engineering Prerequisites

1. Complete Requirement #1 in your workbook. Research one engineering achievement that has had a major impact on society. Learn about the engineers who made this possible, the special obstacles they had to overcome, and how this achievement has influenced the world today. If you are having trouble identifying a topic, check out <http://www.greatachievements.org/> for ideas. Be prepared to share what you learned in an informal 1-2 minute presentation sharing the description of what it was, who did it, what did they overcome, and what is the impact. No presentational aids are needed (eg slides, posters), but you are welcome to have your workbook notes or a summary outline as a reference.
2. Complete Requirement #2 in your workbook. Select a manufactured item in your home (such as a toy or appliance). Under adult supervision and with the approval of your counselor, investigate how and why it works as it does. Find out what sort of engineering activities were needed to create it. If you are having trouble with this, check out <https://www.youtube.com/@howitsmadeofficial1334/videos> for ideas and assistance. Even if you can't find the item you identified, you might be able to see how similar items are made and apply that knowledge to your selected item. Be prepared to share what you learned in an informal 1-2 minute presentation sharing what the item is, how it works, and how it is made. If possible to safely do so, please bring your item with you. You are also welcome to have your workbook notes or a summary outline as a reference if needed.